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United States  
Department of  
Agriculture  
Soil  
Conservation  
Service

Salt Lake City  
Utah



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department  
of Natural Resources

#255-7362



CURRENT SERIAL RECORDS

DEC 7 '83

October 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTIAN, NEAR THE WEST FORK OF HYALITE CREEK, IN MONTANA.*

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

# **WATER SUPPLY OUTLOOK FOR UTAH**

## **and FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS**

Issued by

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WASHINGTON, D.C.



Released by

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SALT LAKE CITY, UTAH

In Cooperation with

<b>UTAH STATE DEPARTMENT OF NATURAL RESOURCES</b>	
<b>DEE C. HANSEN</b> State Engineer Division of Water Rights	<b>DANIEL F. LAWRENCE</b> Director Division of Water Resources



Report prepared by Snow Survey Staff

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As Of October 1, 1983

\* \* \* \* \*  
 \* Utah's 1983 season generally involved too much water. \*  
 \* Flooding occurred in many areas of the state causing \*  
 \* damage that is still being repaired. Late runoff and \*  
 \* a wetter than usual summer reduced irrigation water \*  
 \* needs leaving reservoirs at 95% of capacity as of \*  
 \* October 1st and soil moisture wetter than usual going \*  
 \* into the 1984 water year. Streamflow has been higher \*  
 \* than forecasts indicated even on June 1st and set new \*  
 \* records in many cases. \*  
 \* \* \* \* \*

Snow melt was delayed at least a month and did not begin this year until May 20th. June 1 measurements indicated new record snow packs at most snow courses and several still had snow on July 1 as reported by SNOTEL radio.

Again this year the July-September precipitation was heavier than usual (1 1/2 to 3 times average) reducing irrigation water needs, damaging some crops and at times causing local flooding.

Reservoir storage is again much better than usual for October 1st and stands at 160% of average and 95% of useable capacity. Last year at this time, storage was 138% of the 15 year average.

The following table is a comparison of forecasts made on May and June 1 with the provisional flow measured by the Geological Survey.

<u>Station</u>	<u>Forecast Period</u>	<u>May 1 Forecast (1000 A. F.)</u>	<u>June 1 Forecast (1000 A. F.)</u>	<u>Measured Flow for the Period (1000 A. F.)</u>
<u>BEAR RIVER</u>				
Bear nr Woodruff	May-July	163	190	252*
Logan nr Logan (combined)	May-July	96	132	154
Blacksmith Fk nr Hyrum	May-July	44	66	76
Little Bear nr Paradise	May-June	24	50	65
<u>WEBER-OGDEN RIVERS</u>				
Weber nr Oakley	May-June	111	116	138
Rockport Reservoir Inflow	May-June	116	123	154
Chalk Creek nr Coalville	May-June	44	46	58
Weber nr Coalville	May-June	122	129	167
Lost Creek nr Croydon	May-June	14.4	29	34*
East Cyn. Creek nr Morgan	May-June	19.0	44	43*
Echo Reservoir Inflow	May-June	160	166	190
Weber River nr Gateway	May-June	295	355	474*
South Fk Ogden nr Huntsville	May-June	47	88	81*
Pineview Reservoir Inflow	May-June	94	160	161

<u>Station</u>	<u>Forecast Period</u>	<u>May 1 Forecast (1000 A. F.)</u>	<u>June 1 Forecast (1000 A. F.)</u>	<u>Measured Flow for the Period (1000 A. F.)</u>
<u>PROVO-UTAH LAKE</u>				
Little Cottonwood Ck. nr SLC	May-July	48	50	61*
Big Cottonwood Ck. nr SLC	May-July	54	56	57
Parley's Ck. nr SLC	May-July	22	32	35*
Mill Ck. nr SLC	May-July	8.8	10.5	12.1*
Emigration Ck. nr SLC	May-July	5.4	12.0	10.4*
City Ck. nr SLC	May-July	12.5	17.3	19.7*
S. Willow Ck. nr Grantsville	May-July	4.0	4.0	3.9*
Vernon Ck. nr Vernon	May-June	1.9	1.9	3.5*
Provo River nr Hailstone	May-July	140	160	151
Strawberry Reservoir Inflow	May-July	63	72	141*
<u>UINTAH BASIN &amp; DAGGETT SCD'S</u>				
Duchesne nr Tabiona	May-July	138	142	132
Duchesne at Duchesne	May-July	250	257	278
Strawberry at Duchesne	May-July	76	89	162
Currant Creek nr Fruitland	May-July	22	26	49
Whiterocks nr Whiterocks	May-July	89	92	95e
<u>SEVIER RIVER INCL. BEAVER RIVER</u>				
Sevier at Hatch	May-July	105	110	125
Beaver nr Beaver	May-July	53	56	70*
Oak Creek nr Oak City	May-July	2.6	2.9	3.5*
Chicken Creek nr Levan	May-July	7.6	8.8	21*
Seven Mile Creek nr Fish Lake	May-July	8.2	8.3	23*
<u>SAN RAFAEL, MUDDY, VIRGIN, AND FREMONT RIVERS INCL. MILL CK. NR MOAB</u>				
Cottonwood Ck. nr Orangeville	May-July	79	81	151*
Ferron nr Ferron	May-July	71	78	73
Muddy Creek nr Emery	May-July	32	34	43
Mill Creek nr Moab	May-July	9.3	9.8	11.9*
Virgin nr Hurricane	May-July	116	156	122*
Coal Ck. nr Cedar City	May-July	35	50	48*

\* New record set in 1983

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
<b>GREAT BASIN</b>					
<u>Bear River</u>	Bear Lake	1421.0	1319.1	1240.5	1012.8
	Woodruff Narrows	57.3	57.3	59.3	--
	Woodruff Creek	4.0	4.0	2.2	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	18.3	10.4	4.9
<u>Little Bear</u>	Hyrum	15.3	15.2	10.4	7.4
	Porcupine	11.3	3.6	3.2	1.8 <sup>b</sup>
<u>Ogden</u>	Causey	6.9	5.0	2.8	1.8 <sup>b</sup>
	Pineview	110.1	90.6	77.8	52.7
<u>Provo</u>	Deer Creek	149.7	139.2	134.9	85.9 <sup>b</sup>
<u>Settlement Creek</u>	Settlement Creek	1.2	1.0	0.6	0.3 <sup>b</sup>
	Vernon Creek	0.6	0.6	--	0.1 <sup>b</sup>
<u>Sevier River</u>	Gunnison	18.2	13.8	8.7	3.9 <sup>b</sup>
	Otter Creek	52.5	48.4	35.1	16.8
	Piute	71.8	52.4	43.6	11.7
	Sevier Bridge	236.0	100.6	130.7	55.3
	Panguitch Lake	22.3	19.2	18.6	--
<u>Spanish Fork</u>	Strawberry	270.0	271.7	235.0	132.0
<u>Utah Lake</u>	Utah Lake	883.9	1152.3	936.3	516.6
<u>Weber</u>	East Canyon	48.1	39.8	36.8	31.6 <sup>b</sup>
	Echo	73.9	27.5	45.2	23.9
	Lost Creek	20.0	14.3	17.0	13.1 <sup>b</sup>
	Rockport	60.9	55.0	62.4	40.6
	Willard Bay	193.3	152.5	162.0	152.6 <sup>b</sup>
<b>COLORADO R. BASIN</b>					
<u>Ashley Creek</u>	Steinaker	33.3	22.1	22.2	16.1 <sup>b</sup>
	Red Fleet	26.0	22.0	18.1	--
<u>Colorado</u>	Blue Mesa	829.5	740.0	739.0	--
	Lake Powell	25002.0	24800.0	23005.0	--
<u>Green</u>	Flaming Gorge	3749.0	3675.0	3572.0	--
<u>Lakefork</u>	Moon Lake	35.8	24.8	25.6	9.1
<u>Price River</u>	Scofield	65.8	50.1	48.5	30.4
<u>San Juan</u>	Navajo	1696.0	1617.0	1506.0	--
	Ken's Lake	2.3	1.5	--	--
<u>San Rafael</u>	Huntington North	3.9	2.9	2.9	1.2 <sup>b</sup>
	Joe's Valley	54.6	41.6	51.6	44.3 <sup>b</sup>
	Mill Site	16.7	10.3	10.3	2.8 <sup>b</sup>
<u>Strawberry</u>	Starvation	165.3	156.6	--	104.6 <sup>b</sup>
	Soldier Creek	951.4	97.0	--	--
<u>Uintah</u>	Bottle Hollow	11.3	11.1	11.4	10.1 <sup>b</sup>

b Average of past record in average period - less than 20 years  
 † 1961-80 20 year average period



U T A H P R E C I P I T A T I O N D A T A  
1983 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
B E A R R I V E R B A S I N									
BUG LAKE	12/28 6.66	1/26 1.30	2/22 2.49	3/26 3.43	4/26 5.18	5/27 5.91	6/30 2.06	9/28 6.60	33.63
BURTS-MILLER	12/29 5.02	1/28 0.58	2/24 1.11	3/28 2.85	4/27 3.25	5/28 3.50	6/28 2.60	9/27 5.56	24.47
CLARKSTON MTN								10/34	49.19
FRANKLIN BASIN	1/01 13.50	2/01 3.90	3/01 5.00	4/01 6.70	5/01 7.20	6/01 6.80	7/01 1.60	9/30 10.70	55.50
GARDEN CITY SMT	12/27 9.25	1/26 1.41	2/22 3.64	2/26 3.68	4/26 4.21	5/27 5.39	6/30 0.92	9/28 9.76	38.26
HAYDEN FORK	12/29 5.63	1/28 1.99	2/24 2.70	3/29 11.30	4/27 4.40	5/28 5.02	6/28 2.16	9/27 8.08	41.28
HERD HOLLOW								9/28	36.95
LILY LAKE	12/29 6.84	1/28 1.43	2/24 2.13	3/28 4.68	4/27 4.19	5/28 5.25	6/28 2.89	9/27 7.35	34.77
LITTLE BEAR UP	12/28 15.30	1/26 1.17	2/22 3.64	3/26 6.01	4/26 4.69	5/27 6.31	6/23 2.71	9/29 9.64	49.47
KLONDIKE NRWS	12/27 10.79	1/27 2.54	2/22 2.98	3/26 4.93	4/26 4.27	5/27 6.13	6/30 1.09	9/28 10.08	42.81
MONTE CRISTO	12/28 11.70	1/26 1.96	2/22 3.84	3/26 5.45	4/26 5.50	5/27 7.45	6/27 1.80	10/05 12.22	50.92
SALT RIVER SMT	12/29 7.87	1/27 2.12	2/25 2.12	3/30 3.31	4/26 4.19	5/31 4.06	6/30 1.10	9/30 6.98	31.75
STILLWATER CMP	12/29 6.48	1/28 1.15	2/24 1.89	3/28 3.65	4/27 3.35	5/28 4.06	6/28 2.07	9/27 6.24	28.89
TONY GROVE LK	12/27 14.04	2/01 4.00	3/01 5.10	3/26 6.44	4/26 7.06	5/27 9.03	6/30 1.20	9/30 10.71	57.58
TONY GROVE RS	12/27 8.53	1/26 1.41	2/22 2.79	3/26 3.70	4/26 3.47	5/27 5.20	6/30 0.77	9/28 9.69	35.56
WILLOW FLAT	12/27 14.53	1/27 1.91	2/23 3.62	3/27 5.30	4/26 5.56	5/27 7.72	6/30 2.28	9/30 10.29	51.21
W E B E R - O G G E N R I V E R B A S I N S									
BEN LOMOND TRL	12/28 19.41	1/26 1.22	2/22 5.42	3/26 10.28	4/26 4.57	5/27 6.90	6/27 2.06	10/05 7.69	57.55
BEN LOMOND PK	1/01 26.20	2/01 4.20	3/01 7.20	4/01 16.00	5/01 10.10	6/01 4.70	7/01 5.90	10/01 15.00	89.30
CAUSEY DAM	12/28 6.77	1/26 0.82	2/22 2.10	3/26 3.34	4/26 2.58	5/27 3.72	6/27 1.39	10/05 10.62	31.34
CHALK CREEK 1	1/01 11.80	2/01 2.60	3/01 4.00	3/28 6.50	4/27 4.95	5/28 6.50	6/30 2.00	9/26 10.94	49.29
CHALK CREEK 2	1/01 7.80	2/01 1.30	3/01 2.70	3/28 4.25	4/27 4.88	5/28 4.81	6/30 1.90	9/26 8.48	36.12
CHALK CREEK 3	12/29 7.61	1/28 0.68	2/24 1.97	3/28 3.87	4/27 3.35	5/28 4.66	6/30 2.50	9/26 10.95	33.09
DRY BREAD POND	1/01 9.30	2/01 1.40	3/01 2.60	4/01 4.10	5/01 4.60	6/01 4.60	7/01 2.38	9/30 9.70	38.80
FARMINGTON GS	12/28 13.38	1/26 2.27	2/22 8.25	3/26 9.65	4/26 4.68	5/27 4.60	7/20 2.48	10/13 9.41	50.08
FARMINGTON LWR	12/28 13.40	1/26 2.18	2/22 8.94	3/26 11.17	4/26 4.50	5/27 6.50	7/20 2.48	10/13 9.41	58.58
FRANCIS CANYON								10/34	30.65
GUILDERS PEAK								10/04	37.20
MORSE RIDGE	12/28 12.70	1/26 1.57	2/22 3.91	3/26 5.03	4/26 5.06	5/27 7.39	7/21 2.97	10/04 10.60	49.23
LOST CREEK	12/28 4.91	1/26 0.47	2/22 2.82	3/26 1.17	4/26 2.06	5/27 4.14	7/21 2.02	10/04 7.02	24.61
PARLEY CYN SMT	12/28 10.73	1/28 2.16	2/25 4.26	3/29 7.34	4/27 4.78	5/31 5.89	7/01 2.28	9/30 7.27	44.71
PORCUPINE								9/26	46.68
REDDEN MINE LW	12/29 10.43	1/28 1.71	2/24 3.14	3/28 5.55	4/27 3.31	5/28 6.32	6/28 2.18	9/26 7.53	40.17
FARMINGTON UP	1/01 18.20	2/01 4.90	3/01 8.93	4/01 3.50	5/01 5.30	6/01 9.20	7/01 3.50	10/01 8.30	67.80
SAGEBRUSH FLAT	12/28 5.11	1/26 1.00	2/26 3.31	3/26 2.00	4/26 2.00	5/27 2.03	6/27 1.15	10/05 10.41	27.25

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE(EXCEPT AS NOTED #)  
#: GAGE MOLESTED, DATA FOR THIS PERIOD LOST

U T A H P R E C I P I T A T I O N D A T A  
1983 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
SERGEANT LAKES SM+MOREHOUSE	12/29 8.46	1/28 1.92	2/24 3.08	3/28 4.31	4/27 2.71	5/28 6.03	6/28 4.10 6/28 2.94	9/26 7.69 9/30 7.91	51.79 37.36
U T A H - L A K E J O R D A N R I V E R B A S I N									
BEAVER DIVIDE	1/01 8.60	2/01 1.40	3/01 4.30	3/29 6.37	4/29 3.31	5/28 4.65	6/20 1.50	9/23 9.69	38.82
CLEAR CR RDG 2	12/27 10.21	1/26 1.18	2/22 2.95	3/28 5.86	4/27 2.32	5/25 4.40	6/22 1.51	9/30 6.80	35.23
DANIEL-STR SMT	12/27 10.54	1/26 1.43	2/22 3.92	3/27 5.49	4/28 3.01	5/25 4.14	6/27 1.27	9/28 8.58	38.38
DESERET PEAK								10/03	66.21
DUTCHMAN RS	12/29 14.65	1/29 2.50	2/26 4.50	3/31 8.15	4/30 4.00	5/28 4.25	6/28 1.76	9/29 16.28	56.09
EAST PORTAL	12/30 9.60	1/31 2.11	3/01 5.09	3/30 3.35	4/29 2.90	6/01 3.89	7/01 1.15	10/01 8.53	36.62
HOBBLE CK SMT	12/27 12.10	1/26 1.20	2/22 4.04	3/27 6.07	4/27 2.42	5/25 5.02	6/28 0.78	9/30 8.49	40.12
LAKE CREEK							6/27 32.40	9/29 7.95	40.35
LAMBS CANYON	12/28 8.42	1/28 1.78	2/25 2.80	3/29 5.47	4/27 3.94	5/31 5.81	7/01 26.7	9/30 8.45	39.34
MIDDLE CANYON	12/31 14.70	1/30 1.33	2/27 2.62	3/26 8.00	5/01 5.20	6/06 5.84	5/28 1.20	10/01 9.30	48.19
PAYSON RS	1/01 11.08	1/31 2.90	2/25 2.44	3/31 5.05	4/27 2.57	5/27 4.96	6/23 0.70	9/30 8.82	38.52
ROCKY BASIN-SC	12/31 13.73	2/03 1.19	3/01 5.40	3/30 11.05	4/28 5.20	6/06 7.89	6/30 1.19	10/03 10.40	55.00
CLEAR CREEK #1	1/01 12.00	2/01 1.60	3/01 3.20	4/01 7.30	5/01 2.10	6/01 3.50	7/01 1.20	10/01 5.90	36.80
SOAPSTONE RS	12/29 8.45	1/30 1.70	2/25 2.74	3/29 4.74	4/29 3.12	5/28 3.37	6/28 1.42	9/28 7.71	33.25
TIMPANOGOS DIV	12/29 18.95	1/29 2.45	2/26 4.05	3/31 8.45	4/30 3.85	5/28 3.50	6/28 2.20	9/29 16.15	59.60
TRIAL LAKE	12/29 13.94	1/30 2.53	2/24 4.15	3/29 7.13	4/29 4.81	5/28 4.57	6/28 2.03	9/28 6.18	45.34
VERNON CREEK	12/31 12.20	1/30 2.75	2/27 4.65	3/26 5.95	5/01 3.12	5/30 4.47	6/29 1.35	10/01 7.85	42.34
D U C H E S N E - G R E E N R I V E R B A S I N									
ASHLEY TWIN LK									
ATWOOD LAKE	1/05 9.50	1/31 0.70	2/28 1.10	4/01 3.50	5/01 2.80	6/01 3.80	6/30 2.30	9/30 10.80	34.50
BLACKS FK JCT	12/29 5.40	1/28 1.01	2/24 1.77	3/28 3.06	4/27 3.53	5/28 3.63	6/29 2.38	9/27 4.95	25.73
BROWN DUCK RDG	12/30 10.66	1/30 1.38	2/24 2.00	3/29 5.59	4/29 4.04	5/28 3.25	7/14 3.32	9/30 8.30	38.54
BUCK PASTURE									
BURNT CREEK	12/29 6.26	1/28 0.34	2/28 0.40	3/30 3.80	4/29 2.60	6/01 4.90	6/29 2.55	9/29 5.55	26.40
CHEPETA-WT ROCK								9/28	37.76
CURRENT CREEK	12/27 8.28	1/26 0.92	2/22 2.78	3/27 4.40	4/28 1.77	5/25 2.09	6/27 1.64	9/30 7.48	29.36
E FK BLACKS FK	12/29 5.98	1/28 1.09	2/24 1.67	3/28 3.78	4/27 4.02	5/28 3.89	6/29 2.63	9/27 5.28	28.34
FIVE POINT LK	1/01 12.60	2/02 1.50	3/01 2.70	4/01 3.60	5/01 3.40	6/01 3.00	7/01 2.10	9/30 6.80	35.90
GRIZZLY RIDGE	12/29 11.60	1/28 0.30	2/28 1.85	3/30 5.25	4/29 2.40	6/01 4.60	6/29 3.10	9/29 6.85	35.95
HENRYS FORK								9/28	35.60
HICKERSON PARK	12/30 5.99	1/28 0.53	2/24 0.73	3/28 7.34	4/27 4.06	5/28 6.88	6/29 2.95	9/29 5.25	33.73
HEWINTA GS	12/29 6.38	1/28 1.33	2/24 1.90	3/28 4.29	4/27 4.34	5/28 3.95	6/29 2.82	9/22 4.54	29.55
INDIAN CANYON	12/27 9.93	1/26 1.34	2/22 2.21	3/27 5.23	4/27 2.92	5/25 3.18	6/21 0.68	9/29 5.95	31.44

NOTE: BLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE (EXCEPT AS NOTED)  
 †: GAGE MOLESTED, DATA FOR THIS PERIOD LOST

U T A H P R E C I P I T A T I O N D A T A  
1983 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
JACKSON PARK	12/30 10.02	1/29 0.92	2/24 1.70	3/29 5.31	4/29 3.98	5/29 4.48		9/28 4.43	30.64
KIDNEY LAKES	12/30 9.05	1/29 0.56	2/24 1.23	3/29 4.53	4/29 2.26	5/29 3.88	6/30 4.05	9/28 6.79	43.23
KINGS CABIN UP	1/01 13.90	2/01 1.50	2/24 2.12	3/29 5.98	4/29 4.25	5/28 3.47	7/14 3.48	9/29 8.80	32.35
LAKEFORK BASIN	12/30 8.96	1/29 0.95	2/24 1.62	3/29 4.49	4/29 3.22	5/28 3.49	7/14 4.16	10/01 8.80	43.50
LAKEFORK Mtn 1	1/01 14.20	2/01 3.20	3/01 4.90	4/01 8.20	5/01 8.70	6/01 7.20	7/01 3.50	9/29 7.93	34.82
LIGHTNING LAKE	12/30 10.22	1/29 0.69	2/24 1.61	3/29 5.37	4/29 3.69	5/28 5.33	6/30 4.60	10/01 12.20	62.10
MOSBY MOUNTAIN	12/30 14.21	1/29 0.86	2/24 1.91	3/29 5.35	4/29 3.35	5/28 5.30	5/30 3.75	9/21 4.87	36.38
PARADISE PARK	12/30 7.51	1/29 2.20	2/24 1.92	3/29 3.63	4/29 1.91	5/28 1.87	6/30 1.87	9/28 7.05	41.78
REYNOLDS PARK	12/30 9.67	1/28 0.38	2/24 1.43	3/28 6.07	4/27 4.43	5/28 7.50		9/20 6.69	45.00
ROCK CREEK	12/29 5.58	1/28 1.48	2/24 2.19	3/28 4.82	4/27 2.56	5/28 5.07	6/29 3.11	8/20 11.10	43.06
SHADOW LAKE	12/30 9.90	1/29 0.55	2/24 1.02	3/29 5.70	4/29 2.74	5/28 4.84	6/30 3.60	9/21 3.63	41.08
SPIRIT LAKE							6/29 36.83	9/29 7.45	29.63
STEEL CRK PARK									31.98
TROUT CREEK									44.28
W FK DUCHESNE									

P R I C E - S A N R A F A E L R I V E R B A S I N

BLACKS FLAT-UM	12/29 5.55	1/29 1.46	2/23 1.98	3/29 4.49	4/26 2.64	5/25 3.43	6/21 0.46	10/01 5.61	25.62
BUCKBOARD FLAT	12/29 12.30	1/28 1.40	2/24 3.30	3/28 6.25	4/29 4.10	5/25 1.65	6/30 1.95	9/29 7.70	38.65
BUCK FLAT	12/29 10.44	1/28 3.03	2/23 3.16	3/29 7.41	4/25 2.99	5/25 4.69	7/13 1.65	9/28 6.95	40.32
CAMP JACKSON	12/29 13.10	1/28 1.70	2/24 3.80	3/28 8.60	4/29 2.35	5/25 1.20	6/30 0.95	9/29 9.20	40.90
DILLS CAMP	12/29 9.80	1/28 2.83	2/23 2.17	3/29 5.78	4/25 2.76	5/25 4.38	7/01 0.90	9/28 7.23	35.85
FISH LAKE	12/29 4.80	1/29 0.95	2/23 1.96	3/29 3.89	4/26 1.93	5/25 2.91	6/21 0.58	10/01 10.67	27.69
GOOSEBERRY RES	12/28 12.19	1/27 2.06	2/22 4.25	3/28 8.65	4/25 2.48	5/25 6.51	6/30 2.28	9/28 9.60	45.74
LASAL Mtn UPR	12/30 12.15	1/27 1.80	2/24 4.40	3/29 7.70	4/30 4.20	5/26 3.65	6/30 2.28	9/26 9.35	45.53
MUD CREEK	12/28 7.25	1/27 1.26	2/22 0.84	3/28 6.08	4/25 1.54	5/25 4.88	6/30 2.28	9/28 7.46	29.31
ORANGE OLSEN	12/28 6.16	1/27 1.60	2/22 1.49	3/28 3.03	4/25 0.80	5/25 1.45	7/01 0.18	9/26 6.96	21.49
RED PINE RIDGE	12/28 12.10	1/27 2.30	3/01 3.60	3/28 6.18	4/25 2.58	5/25 2.70	7/01 0.18	9/26 7.02	36.66
STUART RS OLD	12/28 5.58	1/27 1.12	2/22 2.29	3/28 4.94	4/25 1.59	5/25 2.50	6/22 0.49	9/27 7.26	25.28
WHITE RIVER #1	12/27 8.43	1/26 1.36	2/22 3.22	3/28 4.95	4/27 1.39	5/25 3.68	6/22 0.49	9/28 7.79	31.31
SEELEY CK. R.S	1/01 6.80	2/01 2.70	3/01 3.20	3/28 5.31	4/25 2.69	5/25 4.31	6/30 1.00	10/01 7.60	33.61

S E V I E R - B E A V E R R I V E R B A S I N S

BEAVER DAMS	12/29 8.45	1/28 3.62	2/23 2.95	3/28 6.26	4/25 3.22	5/25 6.42	7/01 0.40	9/30 8.13	39.45
BIG FLAT	12/31 9.37	1/31 2.87	2/25 3.75	3/30 9.27	4/27 3.36	5/26 4.58	6/29 1.70	9/30 6.75	41.65
BOX CREEK	12/29 10.20	1/31 2.49	3/01 3.30	3/29 4.04	4/26 4.20	5/25 4.84	7/13 5.06	10/01 7.05	41.18
CASTLE VALLEY	12/30 10.85	1/30 2.67	2/24 2.24	3/30 9.12	4/26 2.19	5/26 3.17	6/21 1.13	9/28 6.87	38.24
DUCK CREEK	12/30 17.43	1/30 3.61	2/24 1.95	3/29 11.29	4/26 1.97	5/26 2.93	6/21 1.13	9/28 8.76	47.94

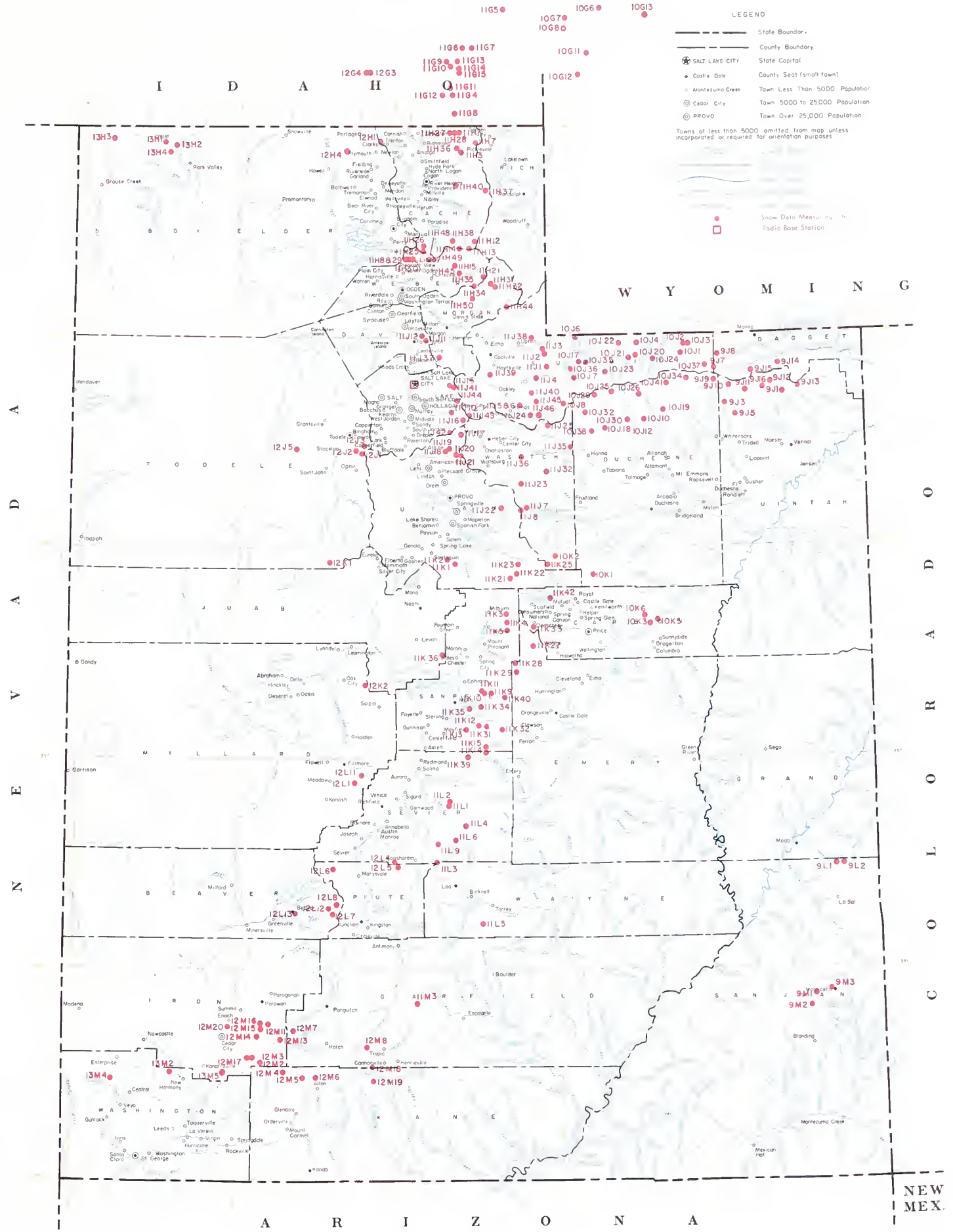
NOTE: PLANK SPACES INDICATE NO READING TAKEN, NEXT READING IS CUMULATIVE (EXCEPT AS NOTED \*)  
\*: GAGE MOLESTED, DATA FOR THIS PERIOD LOST

U T A H P R E C I P I T A T I O N D A T A  
1983 WATER YEAR

STATION NAME	OCT.-DEC.	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY-SEPT.	TOTAL
FARNSWORTH LK	12/29 9.85	1/29 2.59	2/23 3.65	3/29 8.38	4/26 4.16	5/25 7.10	6/28 7.10	10/01 3.85	40.50
GBRC HEADQTRS	12/28 10.37	1/27 3.18	2/22 4.24	3/28 8.21	4/25 3.40	5/25 5.19	5/30 5.50	9/30 7.04	43.13
GBRC MAJORS	12/31 7.10				4/30 16.65	5/31 3.10	6/30 0.38	9/30 4.54	31.77
GBRC MEADOWS	12/28 9.90	1/27 3.21	2/22 5.39	3/28 10.07	4/25 4.17	5/25 8.03	6/30 1.00	9/30 9.95	51.72
GBRC OAKS	12/31 6.90				4/30 17.70	5/31 4.35	6/30 0.48	9/30 5.77	35.20
GOOSEBERRY RS	12/29 7.65	1/29 1.66	2/23 2.31	3/29 6.18	4/26 3.04	5/25 5.58	7/01 1.00	9/30 7.98	35.40
KIMBERLY MINE	12/31 13.36	1/31 1.81	2/25 3.43	3/30 8.39	4/27 4.59	5/26 5.13	6/29 1.09	9/21 5.45	43.25
MAAMOTH RS	1/01 10.50	2/01 1.80	3/01 4.60	4/01 4.30	5/01 2.80	6/01 3.60	7/01 1.80	9/30 8.10	37.50
MERCHANT VALLEY	12/31 10.85	1/31 2.59	2/25 3.21	3/30 7.14	4/27 3.74	5/26 4.15	6/29 2.03	9/30 8.18	41.89
MIDWAY VALLEY	1/01 19.00	2/01 4.20	3/01 5.80	4/01 14.10	5/01 6.00	5/26 4.00	6/22 2.13	9/30 10.40	65.63
MT BALDY RS	12/29 8.17	1/28 3.45	2/23 2.47	3/28 8.16	4/25 6.98	5/25 8.19		9/29 8.75	46.17
OAK CREEK	12/31 6.67	1/31 2.44	2/25 4.19	3/31 8.71	4/27 3.60	5/26 5.01	6/28 0.86	9/29 7.16	38.64
PANGUITCH LAKE	12/30 7.50	1/30 1.44	2/24 1.37	3/30 5.00	4/26 1.39	5/26 2.01		9/28 6.45	25.16
PICKLE KEG SPG	12/29 12.50	2/01 4.00	2/23 3.94	4/01 8.00	5/01 3.60	6/01 5.40	7/01 0.50	9/30 7.60	45.54
PINE CREEK	12/31 12.78	1/31 3.55	2/25 4.11	3/31 9.89	4/27 5.76	5/26 8.01		9/28 6.79	50.89
REES FLAT	12/31 10.25	1/31 3.33	2/25 3.31	3/31 7.39	4/27 2.00	5/27 4.68		9/28 5.67	36.63
SHINGLE MILL	1/04 10.43	1/27 1.64	3/01 4.45	3/28 6.24	4/28 3.30	5/25 5.74		9/29 6.77	48.57
WIDTSOE-ESCL 3	12/29 5.23	1/29 2.63	2/23 1.60	3/29 9.78	4/26 0.98	5/25 2.12	6/21 1.40	9/28 4.06	27.80

C O A L C R E E K - V I R G I N - E S C A L A N T E R I V E R B A S I N S

KOLOB CRYSTAL	12/30 17.50	2/01 4.40	3/01 4.00	4/01 10.80	5/01 7.50	6/01 1.00	7/01 1.00	9/30 6.60	52.50
LITTLE GRASSY	12/30 9.73	1/30 1.28	2/24 3.35	3/30 10.74	4/26 2.98	5/26 1.42	6/30 0.39	10/12 6.70	36.59
LONG FLAT	12/30 8.90	1/30 1.50	2/24 1.62	3/30 9.22	4/26 2.40	5/26 1.71	6/30 0.70	9/30 6.40	32.45
TALL POLES	12/28 9.60	1/27 1.30	2/28 3.45	3/29 6.60	4/26 3.50	5/26 3.50	6/30 1.60	10/13 6.30	35.95
WEBSTER FLAT	12/30 13.30	1/30 4.73	2/24 2.81	3/30 18.36	4/26 2.78	5/26 3.06	6/22 0.74	9/30 8.09	53.87
YANKEE RESVR	12/30 8.45	1/30 1.35	2/24 1.91	3/30 5.65	4/26 2.90	5/26 3.64	6/30 1.28	10/13 5.74	30.92



**LEGEND**

- State Boundary
- County Boundary
- SALT LAKE CITY State Capital
- Castle Dale County Seat (small town)
- Montezuma Creek Town Less Than 5,000 Population
- Canon City Town 5,000 to 25,000 Population
- PROVO Town Over 25,000 Population

Towns of less than 5,000 omitted from map unless incorporated or required for orientation purposes.

- Snow Data Measuring Site
- Radio Base Station

**SNOW COURSES AND RELATED DATA MEASURING SITES**

**UTAH**

1981



USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

USDA-SCS-PORTLAND, OR 1980 M-7-01-22027



# Agencies Cooperating in Utah Snow Surveys

## U. S. GOVERNMENT AGENCIES

U. S. Department of Agriculture  
Soil Conservation Service  
Forest Service  
U. S. Department of Commerce  
NOAA, National Weather Service  
U. S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## STATE AGENCIES

Utah State University  
Utah State Department of Natural Resources  
Division of Wildlife Resources  
Division of Water Resources  
Division of Water Rights  
Bear River Commissioner  
Price River Commissioner  
Provo River Commissioner  
Sevier River Commissioners  
Spanish Fork River Commissioner  
Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

Manti  
Salt Lake City

## ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association  
Board of Canal Presidents - Jordan River  
Central Utah Conservancy District  
Emery Canal and Reservoir Company  
Moon Lake Water Users Association  
Ogden River Water Users Association  
Provo River Water Users Association  
Strawberry Water Users Association  
Sevier River Water Users Association  
Weber River Water Users Association  
Weber Basin Conservancy District

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
FEDERAL BLDG., - ROOM 4012  
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## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting,  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*